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SEQUENCE LISTING

(1) GENE	RAL INFORMATION:							
(i)	APPLICANT: Levy, Gary							
(ii)	TITLE OF INVENTION: Methods of Modulating Immune Coagulation							
(iii)	NUMBER OF SEQUENCES: 4							
(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: BERESKIN & PARR (B) STREET: 40 King Street West (C) CITY: Toronto (D) STATE: Ontario (E) COUNTRY: Canada (F) ZIP: M5H 3Y3							
(v)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30							
(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: (B) FILING DATE: (C) CLASSIFICATION:							
(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Gravelle, Micheline (B) REGISTRATION NUMBER: 40,261 (C) REFERENCE/DOCKET NUMBER: 9579-006							
(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (416) 364-7311 (B) TELEFAX: (416) 361-1398							
(2) INFO	RMATION FOR SEQ ID NO:1:							
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 4630 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear							
(ii)	MOLECULE TYPE: other nucleic acid							
(vi)	ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens							
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1:							
GATCTAGG	GT TGGAAGCCAG GTCTCCTGAG TATGCGAGAA TAAATACAGT CATGGAAGTG 60							
TAAAGAGT	CT GCCAACATTT TGAGAATGTG AATAGGATTT GGCTAAAATT AAGGGGATAT 120							
ACAGAAAA	GT CATAGGAAAT CAGGTTAAAG ACATAAATAT GAGATAGGCT ACAGAGTGTT 180							
TTAAGTAA	TA CAATAAAACA TTTAGATTTT TGCCCATGTC AGTCATTTTG AAATTATTTT 240							
TAAAGCAA	AA AAACCCTTTT TAAACAAGAA ATCTTATGAG ATGTCAATAT GCAAAACAAA 300							

TTAAAAGGAG GTGGTTTCTC TAACTGAAGC TGTTCCTCTT TCCTGCCTTC AGCCTCTGAA 360

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GAGAAAGTTA GAAAACTATT A	ATCATTAATG	CTACATGTTT	TGAACAAGCT	GATATACCAA	420
GTGGCCCAGA GAGCAGGTAG A	AAGAACCAGC	GTGGAGACAG	AAAGCAAGAG	GCCCGCCTGC	480
CAGGGCTACC TGCAGAAAGA A	AAGGGCAAAG	ATGCTGTAGG	CAAGAGAAGT	TCAGGACAGA	540
CACTGGCATA GCTCAAAGAT I	rcacatttga	GCAGCTGTGG	AAGATGACAG	TACAATTACC	600
AAAATGTCGA AGGGCAAAGG A	AGGCAGCTAC	TGGTTTTGAT	GAAAGACAAT	TATGTCCTTT	660
TAAATGGGTC TTAGACATTT A	AGACATTTAT	ATACACTATG	CTACGGACAA	AGGAATAGAA	720
AGTAGCACTT TTTTCTCCAC I	PAGTTTTCTT	CTCTTTTTCA	AGTAGATGAA	GCAAAAGTCA	780
ACTGCAATAG TCAGAAAGCT G	STACTTTGTT	ACACTTAGAA	ACTTCTAAAA	GTGCTTAAGA	840
TTTCACCTGA AAGTCCAACA T	TGAAGAAAAT	ACAGGCTCCC	CAATGCCCCA	TTCTAAGAAG	900
GAAAAAGGAC CATTTTCATT T	TTAGTAACGT	TTCTGTTCTA	TAGACAGTTT	GGATAACTAG	960
CTCTTACTTT TTATCTTTAA A	AACTGTTTT	TCCAGTGAAG	TTACGTATAA	TTATTTACTT	1020
CAAGCGTAGT ATACCAAATT A	ACTTTAGAAA	TGCAAGACTT	TTCTTATACT	ТСАТААААТА	1080
CATTATGAAA GTGAATCTTG T	TTGGCTGTGT	ACATTTGACT	ATAATAATTT	CAATGCATAT	1140
TATTTCTATT GAGAGTAAGT I	TACAGTTTTT	GGCAAACTGC	GTTTGATGAG	GGCTATCTCC	1200
TCTTCCTGTG CGTTTCTAAA A	ACTTGTGATG	CAAACGCTCC	CACCCTTTCC	TGGGAACACA	1260
GAAAGCCTGA CTCAGGCCAT G	GCCGCTATT	AAAGCAGCTC	CAGCCCTGCG	CACTCCCTGC	1320
TGGGGTGAGC AGCACTGTAA A	AGATGAAGCT	GGCTAACTGG	TACTGGCTGA	GCTCAGCTGT	1380
TCTTGCCACT TACGGTTTTT T	rggttgtgc	AAACAATGAA	ACAGAGGAAA	TTAAAGATGA	1440
AAGAGCAAAG GATGTCTGCC C	CAGTGAGACT	AGAAAGCAGA	GGGAAATGCG	AAGAGGCAGG	1500
GGAGTGCCCC TACCAGGTAA G	SCCTGCCCCC	CTTGACTATT	CAGCTCCCGA	AGCAATTCAG	1560
CAGGATCGAG GAGGTGTTCA A	AAGAAGTCCA	AAACCTCAAG	GAAATCGTAA	ATAGTCTAAA	1620
GAAATCTTGC CAAGACTGCA A	AGCTGCAGGC	TGATGACAAC	GGAGACCCAG	GCAGAAACGG	1680
ACTGTTGTTA CCCAGTACAG	BAGCCCCGGG	AGAGGTTGGT	GATAACAGAG	TTAGAGAATT	1740
AGAGAGTGAG GTTAACAAGC T	TGTCCTCTGA	GCTAAAGAAT	GCCAAAGAGG	AGATCAATGT	1800
ACTTCATGGT CGCCTGGAGA A	AGCTGAATCT	TGTAAATATG	AACAACATAG	AAAATTATGT	1860
TGACAGCAAA GTGGCAAATC T	PAACATTTGT	TGTCAATAGT	TTGGATGGCA	AATGTTCAAA	1920
GTGTCCCAGC CAAGAACAAA T	PACAGTCACG	TCCAGGTATG	TATAATAATG	TTTTCTTATC	1980
ATATGTTCAT AAATGTTATA C	CAGTCAGAGA	TGTATCTAAA	AGATTAACCT	GAGTCAGTAA	2040
GTTAAATAGA TGACAGATTA A	AGTCTTTTAT	TTATCAAGGT	GCACAGGAAA	TATAAATAA	2100
CTTCTCAAAT ATGACCACAT A	AAATATGACC	TAATTACAAA	ATCATAGTTA	GTTCTGTATC	2160
CACTGGAAGT CACTTTCAAT T	TTTAAGATCT	TATTTGTTAA	TGCCAGACCT	ACTTGCAAGC	2220
AGAGATTAGA GGTCCTTTCT C	GCTTTATAAC	ATTAGGTTCT	TCTTGTGAGG	CCTTAAGCAT	2280
TTACTAAACA CCTTCAAGTA A	AGTTTAGTAA	AGTTTCATTA	CTGCCATTGA	TTCAATTATC	2340

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AAACTGCTTT	TGTACATATA	AAGAATTCTT	CAGATGCATG	GTTTCTATTA	ACAAGATCCA	2400
ATGCCTTCCT	TTTATTTCCC	CTTCAGTTCA	ACATCTAATA	TATAAAGATT	GCTCTGACTA	2460
CTACGCAATA	GGCAAAAGAA	GCAGTGAGAC	CTACAGAGTT	ACACCTGATC	CCAAAAATAG	2520
TAGCTTTGAA	GTTTACTGTG	ACATGGAGAC	CATGGGGGGA	GGCTGGACAG	TGCTGCAGGC	2580
ACGTCTCGAT	GGGAGCACCA	ACTTCACCAG	AACATGGCAA	GACTACAAAG	CAGGCTTTGG	2640
AAACCTCAGA	AGGGAATTTT	GGCTGGGGAA	CGATAAAATT	CATCTTCTGA	CCAAGAGTAA	2700
GGAAATGATT	CTGAGAATAG	ATCTTGAAGA	CTTTAATGGT	GTCGAACTAT	ATGCCTTGTA	2760
TGATCAGTTT	TATGTGGCTA	ATGAGTTTCT	CAAATATCGT	TTACACGTTG	GTAACTATAA	2820
TGGCACAGCT	GGAGATGCAT	TACGTTTCAA	CAAACATTAC	AACCACGATC	TGAAGTTTTT	2880
CACCACTCCA	GATAAAGACA	ATGATCGATA	TCCTTCTGGG	AACTGTGGGC	TGTACTACAG	2940
TTCAGGCTGG	TGGTTTGATG	CATGTCTTTC	TGCAAACTTA	AATGGCAAAT	ATTATCACCA	3000
AAAATACAGA	GGTGTCCGTA	ATGGGATTTT	CTGGGGTACC	TGGCCTGGTG	TAAGTGAGGC	3060
ACACCCTGGT	GGCTACAAGT	CCTCCTTCAA	AGAGGCTAAG	ATGATGATCA	GACCCAAGCA	3120
CTTTAAGCCA	TAAATCACTC	TGTTCATTCC	TCCAGGTATT	CGTTATCTAA	TAGGGCAATT	3180
AATTCCTTGT	TTCATATTTT	TCATAGCTAA	AAAATGATGT	CTGACGGCTA	GGTTCTTATG	3240
CTACACAGCA	TTTGAAATAA	AGCTGAAAAA	CAATGCATTT	TAAAGGAGTC	CTTTGTTGTT	3300
ATGCTGTTAT	CCAATGAACA	CTTGCAAGCA	ATTAGCAATA	TTGAGAATTA	TACATTAGAT	3360
TTACAATTCT	TTTAATTTCT	ATTGAAACTT	TTTCTATTGC	TTGTATTACT	TGCTGTATTT	3420
AAAAAATAAT	TGTTGGCTGG	GTGTGGTAGC	TCACGCCTGT	AATCCCAGCA	CTTTGGAATG	3480
TCAAGGCAGG	CAGATCACTT	GAGGTCAGGA	GTTTGAGACC	AGCCTGGCCA	AACATGTGAA	3540
ACGCTGTCTC	TATTAAAAAT	ACAAAAATTA	GCCGGGCATG	GTGGTACATG	CCTGTAATCA	3600
ACGCTGTTTA	TTAAAAATAC	AAAAATTAGC	CGGGCATGGT	GGACATGCCT	GTAATCCTAG	3660
TACTTGGGAG	GCTGAGGCAG	GAGAATCGCT	TGAACCTGAG	AGGAAGAGGT	TGCAGTGAGC	3720
CAAGAATGAG	CCACTGCACT	CCAGCATGGG	TGACAGAGAA	AACTCTGTCT	CAAACAAAAA	3780
ААТААТААА	TTTATTCAGT	AGGTGGATTC	TACACAAAGT	AATCTGTATT	TGGGCCATGA	3840
TTTAAGCACA	TCTGAAGGTA	TATCACTCTT	TTCAGGCTAT	AATTATTTGG	GTAATCTTCA	3900
TTCTGAGACA	AACTTAATCT	ATATCATTTA	CTTTGCAACA	GAACAACCCT	ACAGCATTTT	3960
GGTTCCCAGA	. CTAAGGGAAC	TAATATCTAT	ATAATTAAAC	TTGTTCATTT	ATCATTCATG	4020
AAATATAAAA	TACTTGTCAT	TTAAACCGTT	TAAAAATGTG	GTAGCATAAT	GTCACCCCAA	4080
AAAGCATTCA	GAAAGCAATG	TAACTGTGAA	GACCAGGGTT	TAAAGGTAAT	TCATTTATAG	4140
TTTATAACTC	CTTAGATGTT	TGATGTTGAA	AACTGCTTTA	ACATGAAAAT	TATCTTCCTC	4200
TGCTCTGTGT	r GAACAATAGO	TTTTAATTTA	AGATTGCTCA	CTACTGTACT	AGACTACTGG	4260
TAGGTTTTT	r TGGGGGGGG	TGGGTAGGGA	TATGTGGGTA	ATGAAGCATT	TACTTACAGG	4320

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CTATCATACT	CTGAGGCCAA	TTTTATCTCC	AAAGCAATAA	TATCATTAAG	TGATTCACTT	4380
CATAGAAGGC	TAAGTTTCTC	TAGGACAGAT	AGAAAACATG	AATTTTGAAA	TATATAGAAC	4440
agtagttaaa	ATACTATATA	TTTCAACCCT	GGCTGGTAGA	TTGCTTATTT	TACTATCAGA	4500
AACTAAAAGA	TAGATTTTTA	CCCAAACAGA	AGTATCTGTA	ATTTTTATAA	TTCATCAATT	4560
CTGGAATGCT	ATATATAATA	TTTAAAAGAC	TTTTTAAATG	TGTTTAATTT	CATCATCGTA	4620
AAAAGGGATC						4630

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Lys Leu Ala Asn Trp Tyr Trp Leu Ser Ser Ala Val Leu Ala Thr 1 5 10 15

Tyr Gly Phe Leu Val Val Ala Asn Asn Glu Thr Glu Glu Ile Lys Asp 20 25 30

Glu Arg Ala Lys Asp Val Cys Pro Val Arg Leu Glu Ser Arg Gly Lys 35 40 45

Cys Glu Glu Ala Gly Glu Cys Pro Tyr Gln Val Ser Leu Pro Pro Leu 50 60

Thr Ile Gln Leu Pro Lys Gln Phe Ser Arg Ile Glu Glu Val Phe Lys 65 70 75 80

Glu Val Gln Asn Leu Lys Glu Ile Val Asn Ser Leu Lys Lys Ser Cys 85 90 95

Gln Asp Cys Lys Leu Gln Ala Asp Asp Asn Gly Asp Pro Gly Arg Asn 100 105 110

Gly Leu Leu Pro Ser Thr Gly Ala Pro Gly Glu Val Gly Asp Asn 115 120 125

Arg Val Arg Glu Leu Glu Ser Glu Val Asn Lys Leu Ser Ser Glu Leu 130 135 140

Lys Asn Ala Lys Glu Glu Ile Asn Val Leu His Gly Arg Leu Glu Lys 150 155 160

Leu Asn Leu Val Asn Met Asn Asn Ile Glu Asn Tyr Val Asp Ser Lys
165 170 175

Val Ala Asn Leu Thr Phe Val Val Asn Ser Leu Asp Gly Lys Cys Ser 180 185 190

Lys Cys Pro Ser Gln Glu Gln Ile Gln Ser Arg Pro Val Gln His Leu 195 200 205

Ile Tyr Lys Asp Cys Ser Asp Tyr Tyr Ala Ile Gly Lys Arg Ser Ser 210 215 220

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Glu 225	Thr	Tyr	Arg	Val	Thr 230	Pro	Asp	Pro	Lys	Asn 235	Ser	Ser	Phe	Glu	Val 240
Tyr	Cys	Asp	Met	Glu 245	Thr	Met	Gly	Gly	Gly 250	Trp	Thr	Val	Leu	Gln 255	Ala
Arg	Leu	Asp	Gly 260	Ser	Thr	Asn	Phe	Thr 265	Arg	Thr	Trp	Gln	Asp 270	Tyr	Lys
Ala	Gly	Phe 275	Gly	Asn	Leu	Arg	Arg 280	Glu	Phe	Trp	Leu	Gly 285	Asn	Asp	Lys
Ile	His 290	Leu	Leu	Thr	Lys	Ser 295	Lys	Glu	Met	Ile	Leu 300	Arg	Ile	Asp	Leu
Glu 305	Asp	Phe	Asn	Gly	Val 310	Glu	Leu	Tyr	Ala	Leu 315	Tyr	Asp	Gln	Phe	Tyr 320
Val	Ala	Asn	Glu	Phe 325	Leu	Lys	Tyr	Arg	Leu 330	His	Val	Gly	Asn	Tyr 335	Asn
Gly	Thr	Ala	Gly 340	Asp	Ala	Leu	Arg	Phe 345	Asn	Lys	His	Tyr	Asn 350	His	Asp
Leu	Lys	Phe 355	Phe	Thr	Thr	Pro	Asp 360	Lys	Asp	Asn	Asp	Arg 365	Tyr	Pro	Ser
Gly	Asn 370	Cys	Gly	Leu	Tyr	Tyr 375	Ser	Ser	Gly	Trp	Trp 380	Phe	Asp	Ala	Cys
Leu 385	Ser	Ala	Asn	Leu	Asn 390	Gly	Lys	Tyr	Tyr	His 395	Gln	Lys	Tyr	Arg	Gly 400
Val	Arg	Asn	Gly	Ile 405	Phe	Trp	Gly	Thr	Trp 410	Pro	Gly	Val	Ser	Glu 415	Ala
His	Pro	Gly	Gly 420	Tyr	Lys	Ser	Ser	Phe 425	Lys	Glu	Ala	Lys	Met 430	Met	Ile
Arg	Pro	Lys 435	His	Phe	Lys	Pro									

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5403 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CATAAGGCGT	GTCTGACAAA	TTCTTCATAC	ACACATTTCC	CCTTTGCACA	TTCAGTCTGT	60
ATAGGTTATT	TCTATAGGAG	AAAAAAAA	TTCAAATTCC	TTGTGCACTG	GTAACAGGCA	120
TGAAGGCTCA	GCAAAGCCAA	TACGTGTTAT	GTCCAGTTGG	AGACAGTGCC	AGGGCCAACA	180
TTCCAGACTT	CTCAGATAGA	AAGTGCGCCT	GCCTGCCCTG	CTCTGAGAAT	TTGAAGAGAG	240
TAGTTCAGTT	AGAATTAAGA	GGCAGTAGAG	AAAAGTCTTG	GGAAATCTGG	TTAGAGATAT	300
AAATATGAGA	ACTGGACATG	GTGGTACACA	CCTGTGATCT	CTGTGTTTAG	GAGGGAGAGG	360

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CAGAGAGATC AGGAGTTCAA	GGCCAGCCTG	AGCTACTTGA	GACCCAGTCT	AAATAAATAA	420
GAGATAGATT ACAGAGTGCC	TTTAACTAGT	ACAGAGAAAG	AATTTGGGTT	TATCTGTGTC	480
AGTTACGCTG AAATAATTTT	TAAGTAATAA	AATCCCTTTT	AATAAGAAAC	CTTATGAGGT	540
CAGTATGCAC AATGAACTTA	AGAGAGACCC	CCAGCTCCTG	AGCTGAGTGA	TGGGGAAGGA	600
CAGCCACTGC CTGTGATGTG	TGAGTGACGT	GCTTCCAAGT	GTTTTAACCA	CTGACGATTA	660
CATAGCCTGC ACAGTCAGGA	GAAAACAGCC	GTATTCTCTG	CCAGTTCTCT	TCCCTTTTAC	720
AAACAGATGA GAGACACACA	CAGAGAATCC	ATTTAAAGAG	CGGACCTTTG	TTCTGATTAG	780
GGGCAATTTT AAGTACTTAA	GAGTTCACAC	AAAGTCTAGC	CTTCAAAAAG	AAAACAGGTT	840
CCCAAACTAG GGAGGAAACA	GAATCATTTC	CATTTTGGTG	ACATTTAGTG	GGAAGAAGCT	900
CACAGACATT TAGACGTTCC	AACTCTTTCC	CCACTAGTGG	ACCAAGTATA	TAATATGGTA	960
TCTTTTGGGC ACTGGTATTA	CAACTGTTTT	TTAAACAAAA	GACTTTCCTT	GTGCTTTACT	1020
AAAAACCCAG ACGGTGAATC	TTGAATACAA	TGCGTGGCAC	CCACGGCAGG	CATTCTATTG	1080
TGCATAGTTT TGACTGACAG	GAGATGACAG	CATTTGGCTG	GCTGCGCTTG	CTGAGGACCC	1140
TCTCCTCCTG TGTGGCGTCT	GAGACTGTGA	TGCAAATGCG	CCCGCCCTTT	TCTGGGAACT	1200
CAGAACGCCT GAGTCAGGCG	GCGGTGGCTA	TTAAAGCGCC	TGGTCAGGCT	GGGCTGCCGC	1260
ACTGCAAGGA TGAGGCTTCC	TGGTTGGTTG	TGGCTGAGTT	CTGCCGTCCT	CGCTGCCTGC	1320
CGAGCGGTGG AGGAGCACAA	CCTGACTGAG	GGGCTGGAGG	ATGCCAGCGC	CCAGGCTGCC	1380
TGCCCCGCGA GGCTGGAGGG	CAGCGGGAGG	TGCGAGGGGA	GCCAGTGCCC	CTTCCAGCTC	1440
ACCCTGCCCA CGCTGACCAT	CCAGCTCCCG	CGGCAGCTTG	GCAGCATGGA	GGAGGTGCTC	1500
AAAGAAGTGC GGACCCTCAA	GGAAGCAGTG	GACAGTCTGA	AGAAATCCTG	CCAGGACTGT	1560
AAGTTGCAGG CTGACGACCA	TCGAGATCCC	GGCGGGAATG	GAGGGAATGG	AGCAGAGACA	1620
GCCGAGGACA GTAGAGTCCA	GGAACTGGAG	AGTCAGGTGA	ACAAGCTGTC	CTCAGAGCTG	1680
AAGAATGCAA AGGACCAGAT	CCAGGGGCTG	CAGGGGCGCC	TGGAGACGCT	CCATCTGGTA	1740
AATATGAACA ACATTGAGAA	CTACGTGGAC	AACAAAGTGG	CAAATCTAAC	CGTTGTGGTC	1800
AACAGTTTGG ATGGCAAGTG	TTCCAAGTGT	CCCAGCCAAG	AACACATGCA	GTCACAGCCG	1860
GGTAGGTGTA ATGAGGGTCA	TACAGTTTGT	TCATGAAAGC	TGTATAGCCA	GATAGTGGCC	1920
ATAAACATTA ACCCGAGGGA	GCATAAGTTA	GTCAGACTTT	CACCTGTTAA	GTTATGGCAG	1980
GAGAAACAAG TGTTTTCTCA	AATGAGACAA	CAGAAATGGT	AAATGATCCA	CGTACAAAAA	2040
TCCTATTAGT TGTACTCGTT	AGAGACCGTC	ACTTGCAAGT	CTCTAGACCT	TCCCTGCTAG	2100
GTCGACCAAC AGACGAGCAG	AAACAGATTC	CTCCCGGAAT	CTGAACACAT	ATTTGAACAC	2160
AGGACAGGTA TGGCAAGGTT	CCTGGCTCTG	CTTGCTTAGG	TCCCTGGGAA	TCAGATCTTG	2220
GGTGGCTGAT GGGCTTTATA	AGGCTTTCAC	AAACAATCTG	CTGTGCTAGG	TTCTCAAATA	2280
TCTAGTGAGA ATGGGAGATT	TTTATACATG	GAAGCATCTC	TCCTCTCTCT	CTCCTCTCTC	2340

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СТСТСТСТТС	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	2400
CTCCCTCCCT	СССТСТСТСТ	CTCTTTGTGT	GCGTGTGTGG	TGGGGATGAG	GACACGTGTA	2460
GAACTTCGGG	GGTTGAGACT	TAGTGCATAT	GCATCCTCAC	CATTCCAGTT	AGTGAATGTT	2520
AACACTATTT	AAGGTCACAG	ACCTAACAGC	CTTCTGTGTC	CGGATTCCTG	GATTCCTAGG	2580
ACCTTTGTGG	ATGGGTTGCC	ACACCCTCTG	TGTTCATCCT	GACTGTGAGG	TCGATGGGAC	2640
ATAGTAGGGA	TAACTTTCAT	TTGGAATCTC	TAGAGATGGT	AGGTCATCAT	GTCATAGAAT	2700
GTTATCACTA	ATGACCAAGA	TAGACACTCA	TGTTTAAGAG	ACATCACAAG	GTGTATATTA	2760
AATATGACAT	GGCATATAAC	TTGTAATGAC	ACAAAAATAT	TCTGTTACCT	ACTTTTCTCC	2820
TAAAAGCTTG	GGACTCTCCA	GAGTTCTAAA	TACATGCAAA	CAGATTATTG	TGTTTTACAG	2880
GAATCTTATA	TTGAACTTTC	TTTACCTGAC	TCAAATTTTA	TTAAAATTAA	CTGGGAACAA	2940
ATAGTTGGTC	TCTAATCTCT	ACAAAAACCA	CCAAATGATT	ACACTGAGCA	TAATTATAAT	3000
CACCCTGCTG	CTACGTCTAG	AAACCAAACT	GTGAAATATT	GGCTGACTGT	ATACCTTCCT	3060
AAATAATAAA	TTCAGGATAA	CATTGCCATA	TTATTGGAGA	ACCCCCCCT	CCCTTTTAAA	3120
ACTGGAATCA	TTTTATGTCA	ATCTCAGGTG	AAATACGAAT	GGGTTTCAGA	ACAGTGCTGT	3180
GCACTGAAGG	CTGACATTTA	GAACATATAT	AACGATTTCT	GTAAAGTCTG	CTGTAACAAT	3240
TGCTGATTGT	ATCCTAGGAG	ACTTGGACTC	CTCTCAACGT	TAAGGCAGAG	GAATATAATG	3300
GTTATGAGAG	TAAAACTCTC	TGTCAGGTAC	ATCTGGCTTT	CTGTCCCAGC	TCTGTCACTT	3360
AACACTTAGT	TGCGGTGGGA	AAACTCCCTG	ATCTTCCGGG	AGACTAAGTA	ACTGTATAAG	3420
CAAGCTGGCC	GTGATATCCA	CGTCGTAAGG	CTGCTGTGTG	GGTTCAGTGA	AAACTGTTAC	3480
AGTGATTGGC	AGAGTTTCTG	GAGGTCATTG	ACCCTCATTA	AACCTTGCAT	ACACTTATTC	3540
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TTGATAACAC	CAGTTGGTTC	TGAGGCCTTA	GTTAGCATCT	GTTAGCCTGG	TTCAGGAGAG	3660
TGTATCAGAG	CCAGGTTCCT	CTATCACATA	AACTGTAACG	CAAGTGAATT	GTCCAATTGC	3720
TGTTGAGTCT	GAGAGTCCTT	GAGGTGCATA	GCTTTGACTA	ATAAATCCCC	ATGCTTTTAT	3780
GCTTTTCCTT	CCTCCCTCTT	CCAGTTCAAC	ATCTAATATA	CAAAGATTGT	TCCGACCACT	3840
ACGTGCTAGG	AAGGAGAAGC	AGTGGGGCCT	ACAGAGTTAC	CCCTGATCAC	AGAAACAGCA	3900
GCTTTGAGGT	CTACTGTGAC	ATGGAGACCA	TGGGTGGAGG	CTGGACGGTG	CTGCAGGCTC	3960
GCCTTGATGG	CAGCACCAAC	TTCACCAGAG	AGTGGAAAGA	CTACAAAGCC	GGCTTTGGAA	4020
ACCTTGAACG	AGAATTTTGG	TTGGGCAACG	ATAAAATTCA	TCTTCTGACC	AAGAGTAAGG	4080
AAATGATTTT	GAGAATAGAT	CTTGAAGACT	TTAATGGTCT	CACACTTTAT	GCCTTGTATG	4140
ATCAGTTTTA	TGTGGCTAAT	GAATTTCTCA	AATACCGATT	ACACATCGGT	AACTACAATG	4200
GCACGGCAGG	GGATGCCTTG	CGTTTCAGTC	GACACTACAA	CCATGACCTG	AGGTTTTTCA	4260
CAACCCCAGA	CAGAGACAAC	GATCGGTACC	CCTCTGGGAA	CTGTGGGCTC	TATTACAGCT	4320

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CAGGCTGGTG	GTTTGATTCA	TGTCTCTCTG	CCAATTTAAA	TGGCAAATAT	TACCACCAGA	4380
AATACAAAGG	TGTCCGTAAT	GGGATTTTCT	GGGGCACCTG	GCCTGGTATA	AACCAGGCAC	4440
AGCCAGGTGG	CTACAAGTCC	TCCTTCAAAC	AGGCCAAGAT	GATGATTAGG	CCCAAGAATT	4500
TCAAGCCATA	AATTGCTAGT	GTTCATCTCT	CTGGGCACTC	ACTATCTAAG	AGGACGATGA	4560
ATTCCTTCAG	CCCTTTACCA	TATGTCTCAG	TTTATATTCC	TTTCCTATGG	CTAAACATTT	4620
CCTTTAAAGC	TTTACAGCTT	TTAGAATAAA	GCTGAAAAGA	TCTAAAAAGA	CTCCTATGTT	4680
GCTGTTATAT	GAGGAATGCT	TGAAAGCACT	GGAAATATTG	ACAATTATAC	ATTATAATTG	4740
CAAAACCTTT	CATTTTTATT	AGTTGAAAAG	TTTCCTAATA	TTTTTATTAT	TTTTATAATA	4800
AAAACTAAAT	TATTCAGCAA	GCTAGATTCT	ATATACGCAA	GTTTTATTTT	CACTAGGGCT	4860
AAATATACAC	ATTTGAGAAT	ATACCAGTCC	TTCCAGGTAC	AACTGAAAGC	CAAGAACTGT	4920
AGTATTATCT	TTCGTCTAAG	AAGAACTTAA	AGCATTTTAG	TTCTCAAGAA	GAAGGCAGG	4980
GATGGGATTG	GGGGCCAGGG	ACAATATGTA	TAGCTAAATG	TATTCATCTA	ATGCAAAATA	5040
TGGCATTAAA	ATACCTAAAA	ATGTGGTAGC	ATAATATATG	TCTCTTCCCT	CTCCAATTGA	5100
AAAATAATGT	TACCCTGTAG	ACTTTGGTTT	AGTGGTAATT	CACTTACTGT	TTATAGCCTG	5160
TTAGACCGCG	ATACAAAAGC	TGCTTTATCC	TCTCCCTCTG	CTCTCTGTGC	ACAATGGTTT	5220
GTGATGTAAG	GTGCTAGACT	ACTGTAAGGT	TTCCTTGGGG	AAAGGCATGG	TAAGGGAAAA	5280
CACACTGGTT	TATATTTTGA	AAGCCAATCC	TAATCCCAAA	GCAATACTGT	TGTCGAGGAG	5340
TCAACGTTCT	AGGAAGCTGA	CTTTTCTAGA	ACAAATGTAT	TTATTAGGAT	GAATTTGGGA	5400
ATT						5403

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 432 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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Glu Gly Ser Gln Cys Pro Phe Gln Leu Thr Leu Pro Thr Leu Thr Ile 50 55

Gln Leu Pro Arg Gln Leu Gly Ser Met Glu Glu Val Leu Lys Glu Val 55 70 75 80

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Arg Leu Asp Gly Ser Thr Asn Phe Thr Arg Thr Trp Gln Asp Tyr Lys 260 265 270

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